What Is Claimed Is:

1. A device for detecting radiation signals, having a first detector (5a), having a second detector (5b),
having a first filter (11a) and having a second filter (11b),
wherein the first and second detectors (5a, 5b) are provided on a first chip (1), the first and second filters (11a, 11b) are provided on a second chip (2), and the first chip (1) and the second chip (2) are connected to one another in hermetically sealed fashion, especially by a wafer-bonding method.

2. The device as recited in Claim 1,
wherein the detectors (5a, 5b) are provided as thermopiles, temperature-sensitive resistors or temperature-sensitive diodes.

3. The device as recited in one of the preceding claims,
wherein an absorber layer (9) is provided on at least one of the detectors (5a, 5b).

4. The device as recited in one of the preceding claims,
wherein the first chip (1) includes a first substrate (4), the first and second detectors (5a, 5b) being thermally decoupled from the first substrate (4).

5. The device as recited in one of the preceding claims,
wherein the first and/or the second filter (11a, 11b) is a Fabry-Perot filter.

6. The device as recited in one of the preceding claims,
wherein, in addition to the first and second detectors (5a, 5b), further detectors are provided, and, in addition to the first and second filters (11a, 11b), further filters are provided.

7. A device for measuring the concentration of a substance in the beam path of a radiation source using a device for detecting radiation signals as recited in one of the preceding claims.